

Product datasheet for **MC217993**

Unc84b (BC098208) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc84b (BC098208) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Unc84b
Synonyms:	SUN2, C030011B15
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC098208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCGAGACGAAGCCAGCGCCTACTCGCTACTCTCAGGATGATAACGATGGCGGCAGCAGCAGCTG
GTGCGAGCTCCGTGGCAGGAAGCCAGGGCACCGTGTAAAGACAGTCCTCTCAGGACTTTGAAGAGGAA
ATCCAGCAACATGAAGCACCTGTCCCGAGCTCCACAGCTGGGCCCTCTCTGACTCCCACACCTCTAC
TACAGCGAGTCTGTGGTTCGAGAGTCTACATCGGCAGCCCCGGGCTGTGTCCCTCGCCAGGAGTGCC
TCCTGGATGACCACCTACACAGTGAAGCCACTGGAGCGGGGACCTTCGGGGGAGGAGGAGAGGAAC
AGGTGGTCTGAGAGCAGCAAGGCCAATGGGCTCACCGCGGAGCAAGGCCTCAGAAGACTTTTTCGGA
TCTTCTCAGGCTATTCTCAGAGGATGACCTTGCAAGGCTACACGGACTCAGACCAGCACAGCTCGGGT
CCAGGTTAAGGAGTGCAGCATCTCGGGCCGGCTCTTTGTCTGGACTCTGGTCACTTTCCAGGCCGCT
CTTTGGTCTTCTACTGGTGGATTGGCACCACCTGGTACCGCTGACAAGTCTGCTCCCTCCTGGAT
GTCTTCGCTCAACCAGGCACTTCTCGCTGAACCTGAAGAGTTTTCTGTGGTTCTTCTGCTCTGTCTAC
TCCTGACTGGTCTGACCTACGGTCTTGGCATTATTTACCCCTTAGGGCTGCAGACATTGCAACCCGCTGT
GGTCTCCTGGTGGGCAGCAAAAGAGAGCAGGAAGCAGCCAGAGGTGTGGGAATCCAGAGACGCTCCAG
CACTTCCAGGCTGAGCAGCGCTTCTCTCCCGGTTCACTCTCTGGAGCGGCTGTGGAAGCCCTTGCTG
CAGACTTTTCTCCAAGTGGCAGAAGGAGGCCATACGGCTGGAACGCCTGGAGTGCAGGAGGGGCTGC
TGGCCATGGAGGAGCAGTAGCCTGAGCCATGAAGATGCCCTGTCTCTCCTAGAAGGGTTGGTGAAGCCG
CGCGAGGCTACCTGAAGGAGGACTTGCAGGGACACAGTGGCTCATATCCAGGAAGAATTGGCTACCC
TGAGGGCAGAGCATCACAAGACTCGGAAGATCTTCAAGAAGATCGTCCAGGCCTCTCAGGAGTCCGA
AGCCCCAGTCCAGCAGCTGAAGACAGAATGGAAGAGCATGACCCAGGAGGCTTCCAGGAGAGCTCTGTG
AAGGAGCTGGGACGGCTGGAAGCCAGCTGGCCAGCCTGCGGCAGGAGCTGGCTGCCCTGACTCTGAAGC
AGAAGTCCGGTGGCAGATGAAGTGGGCTGCTGCCACAGAAGATCCAGGCTGCCAGGGCTGATGTGAGCGG
GAAGTACCAGAGCCCTACTAA

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC098208

Insert Size: 1422 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC098208](#), [AAH98208](#)

RefSeq Size: 4142 bp

RefSeq ORF: 1421 bp

Locus ID: 223697

Cytogenetics: 15 E1

Gene Summary: As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Specifically, SYNE2 and SUN2 assemble in arrays of transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow during actin-dependent nuclear movement. Required for interkinetic nuclear migration (INM) and essential for nucleokinesis and centrosome-nucleus coupling during radial neuronal migration in the cerebral cortex and during glial migration. Required for nuclear migration in retinal photoreceptor progenitors implicating association with cytoplasmic dynein-dynactin and kinesin motor complexes, and probably B-type lamins; SUN1 and SUN2 seem to act redundantly. The SUN1/2:KASH5 LINC complex couples telomeres to microtubules during meiosis; SUN1 and SUN2 seem to act at least partial redundantly. Anchors chromosome movement in the prophase of meiosis and is involved in selective gene expression of coding and non-coding RNAs needed for gametogenesis. Required for telomere attachment to nuclear envelope and gametogenesis. May also function on endocytic vesicles as a receptor for Rab5-GDP and participate in the activation of Rab5.[UniProtKB/Swiss-Prot Function]